

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## A2 CC-1 Adding and Subtracting Rational Expressions

### Warm Up:

Add or Subtract

1.  $\frac{5}{19} + \frac{7}{38}$

2.  $\frac{2}{15} - \frac{3}{25}$

Steps for Adding/Subtracting Rational Expressions:

1.

2.

3.

4.

Combine and simplify each of the following:

1.  $\frac{3}{4} + \frac{2}{7}$

2.  $\frac{6}{x} - \frac{7}{x+3}$

3.  $\frac{6}{x} + \frac{7}{xy}$

$$4. \quad \frac{2x+3}{6x} - \frac{x-2}{4x}$$

$$5. \quad \frac{3}{x+2} + \frac{x-2}{x}$$

$$6. \quad \frac{6}{y-5} - \frac{y+5}{y^2-25}$$

7.  $\frac{2}{a^2 - 4} - \frac{1}{a^2 + 2a}$

8.  $\frac{1}{2 - x} + \frac{2}{x - 2}$

9.  $\frac{y}{y - 3} - \frac{18}{y^2 - 9}$

10.  $\frac{2}{a+1} + \frac{3}{a^2-1}$

11.  $\frac{2}{5a} + \frac{1}{4a}$

12.  $\frac{1}{2a+2} + \frac{1}{a^2-1}$

$$13. \frac{3}{x-3} + \frac{x}{3-x}$$

$$14. \frac{b}{b-1} - \frac{1}{2-2b}$$

$$15. \frac{1}{a+2} + \frac{a}{a^2+2} + \frac{a}{a+1}$$